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THE TINEIDS OF NORTH AMERICA.* — Our gratitude is due to Mr. Stainton for this kindly act of international courtesy in preserving in a permanent form the part of Dr. Clemens' scientific writings (and they were all confined to the Lepidoptera) relating to the family of Tineidæ. Dr. Clemens was fortunate in the beginning of his studies, in the friendship of so able a naturalist and kind a helper as the editor. For our part, who owe so many favors to Dr. Clemens, and also have derived so much aid and stimulus from Mr. Stainton's works, we appreciate fully this mark of friendship.

Little new matter, but a number of new woodcuts appear, from Dr. Clemens' pencil, being mostly outlines of the venation of the wings of these small moths. Nine letters to Mr. Stainton, and a few pages of other matter, are added to what has already been published in the Proceedings of the Academy of Natural Sciences, and the Entomological Society of Philadelphia.

BOTANY.

ON CROSS-FERTILIZATION AS AIDED BY SENSITIVE MOTION IN MUSK AND ACHIMENES.—The sensitive motion of *Mimulus* has been well known, at any rate, since the time of Sprengel, who curiously enough includes this proper motion among those to account for which he says "we are obliged to suppose an internal impulse, a force independent of external influences.† In this category he places the stigmatic movements of *Mimulus*, *Martynia*, and *Scævola*, and the movements of the stamens in *Parnassia* and other plants. The object of the movements of the stamens in *Parnassia* was already connected in his mind with that of insect agency, and this has since been conclusively established by other botanists.‡

I am not aware that a like connection has been noticed between the stigmatic movements of musk, and the necessity of insect fertilization. Vaucher remarks that during *the time of fecundation* *M. luteus* and *M. glutinosus* will, as he himself has tried, close at

* The Tineina of North America, by the late Dr. Brackenridge Clemens. (Being a collected edition of his writings on that group of insects.) With notes by the editor, H. T. Stainton, F. R. S., London, 1872. John Van Voorst, 8vo, pp. 282, with woodcuts.

† Sprengel's "Anleitung zur Kenntniss der Gewächse," part i, p. 274.

‡ See A. W. Bennett's paper in Journ. Linn. Soc., vol. xi, p. 26.